

## THAT WHICH IS CLAIMED:

1. A bearing assembly, comprising:  
a pair of bearing members movable relative to one another, said pair  
including a first member and a second member that define a space therebetween, at least  
10 said first member having a bearing surface having a relatively thin coating of a  
polytetrafluoroethylene-based material thereupon; and

15 a grease lubricant occupying the space defined between the first member  
and the second member, wherein the polytetrafluoroethylene-based material and the  
grease lubricant act in conjunction with one another to lubricate the first and second  
members.

2. A bearing assembly according to Claim 1, wherein the coating is a  
polytetrafluoroethylene-based material having a solid particulate in a form selected from  
the group consisting of flocked, powdered, fibrous, flaked, beaded, and combinations  
20 thereof.

3. A bearing assembly according to Claim 1, wherein the coating has a  
thickness of about 0.003-0.007 inch.

25 4. A bearing assembly according to Claim 1, wherein the first member is  
formed from the group consisting of steel, titanium, aluminum, nickel, bronze, and alloys  
thereof.

30 5. A bearing assembly according to Claim 1, further comprising a seal  
positioned in the space defined between the first member and the second member.

6. A bearing assembly according to Claim 1, wherein the coating is a self-  
lubricating material.

5           7. A bearing assembly for a truck pivot joint bearing in an aircraft landing gear, the assembly comprising:

                  a metallic truck assembly defining an opening therein;

                  a pin rotatably positioned in the opening of the truck assembly;

                  a truck pivot bushing positioned at least partially in the opening defined by

10          the truck assembly, the truck pivot bushing having an inner surface proximate said pin such that a space is defined between the inner surface of the truck pivot bushing and the pin, at least a portion of the inner surface of the truck pivot bushing having a relatively thin coating of a self-lubricating, greaseless material; and

                  a grease lubricant occupying the space defined between the pivot bushing

15          and the pin.

8.        A bearing assembly according to Claim 7, wherein the coating is a polytetrafluoroethylene-based material.

20        9. A bearing assembly according to Claim 8, wherein the coating has a solid particulate in a form selected from the group consisting of flocked, powdered, fibrous, flaked, beaded, and combinations thereof.

25        10. A bearing assembly according to Claim 7, wherein the coating has a thickness of about 0.003-0.007 inch.

11.      A bearing assembly according to Claim 7, wherein the pivot bushing is formed from the group consisting of steel, titanium, aluminum, nickel, bronze, and alloys thereof.

30        12. A bearing assembly according to Claim 7, further comprising a seal positioned in the space defined between the truck assembly and the pin.

35        13. A method of manufacturing a bearing assembly having a pair of bearing members movable relative to one another, the method comprising:

5 applying a relatively thin coating of a self-lubricating, greaseless material  
on a portion of a first member of the pair of bearing members;  
positioning a second member of the pair of bearing members proximate  
the first member to define a space therebetween; and  
introducing a grease lubricant between the first member and the second  
10 member such that the grease lubricant substantially occupies the space defined  
therebetween.

14. A method according to Claim 13, wherein the grease lubricant introducing  
step includes introducing an extreme pressure grease.

15 15. A method according to Claim 13, wherein the applying step includes  
coating the first member with a polytetrafluoroethylene-based material.

20 16. A method according to Claim 13, further comprising removing the bearing  
assembly from an aircraft landing gear before said applying step, whereby the greaseless  
material and the grease lubricant are retrofitted in existing aircraft landing gear.

25 17. A method of lubricating a bearing assembly having a pair of bearing  
members movable relative to one another, the method comprising:  
positioning the pair of bearing members proximate each other to define a  
space therebetween;  
applying a coating of a polytetrafluoroethylene-based, greaseless material  
to at least a portion of one of the members of the pair of members; and  
introducing a grease lubricant so as to occupy the space defined between  
30 the members, wherein the grease lubricant is in contact with the coating of greaseless  
material.

35 18. A method according to Claim 17, further comprising removing the bearing  
assembly from an aircraft landing gear before said applying step, whereby the greaseless  
material and the grease lubricant are retrofitted in existing aircraft landing gear.